

**CLAIMS:**

1. (Currently amended) A method of promoting neurogenesis comprising the steps of:

administering a therapeutic amount of a phosphodiesterase inhibitor compound to a patient in need of neurogenesis promotion; ~~and~~  
promoting neurogenesis; and  
identifying increased numbers of new neurons.

2. (Original) The method according to claim 1, further including administering cellular therapy to the patient.

3. (Original) A compound for promoting neurogenesis comprising an effective amount of a phosphodiesterase inhibitor sufficient to promote neurogenesis.

4. (Original) The compound according to claim 3, further including a cellular therapy.

5. (Canceled)

6. (Previously presented) The compound according to claim 4, wherein said phosphodiesterase inhibitor is further defined as means for augmenting nitric oxide in a tissue.

7. (Previously presented) The compound according to claim 6, wherein said phosphodiesterase inhibitor is sildenafil.

8. (Currently amended) A method of augmenting the production of neurons by administering an effective amount of a phosphodiesterase inhibitor to a site in need of augmentation, ~~and augmenting production of neurons,~~ and identifying increased numbers of new neurons.

9. (Original) The method according to claim 8, further including administering cellular therapy to the site.

10. (Currently amended) A method of increasing neurological function by administering an effective amount of a phosphodiesterase inhibitor to a patient, ~~and increasing neurological function,~~ and identifying increased numbers of new neurons.

11. (Original) The method according to claim 10, further including administering cellular therapy to the patient.

12. (Currently amended) A method of increasing cognitive and neurological function by administering an effective amount of a phosphodiesterase inhibitor compound to a patient, ~~and increasing cognitive and neurological function,~~ and identifying increased numbers of new neurons.

13. (Original) The method according to claim 12, further including administering cellular therapy to the patient.